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(54) AQUEOUS PIGMENTED INK COMPOSITION FOR INK JET INK FOR PRINTING ON VINYL

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain the subject ink composition, capable of forming durable, water-impermeable and light-resisting printed images on a hydrophobic substrate without requiring a pre-treatment or an after-treatment, by compounding an aqueous vehicle, a surfactant, an insoluble colorant and a polymeric dispersant which are specified, respectively. SOLUTION: This ink composition for ink jet, which is suitable for being directly printed on a hydrophobic substrate, comprises (A) an aqueous vehicle, which comprises at least water and a water-compatible solvent selected from a group consisting of glycols and glycol ethers and has a water content of  $\approx 80$  wt.% based on the total weight of the vehicle, in an amount of, preferably, 70-99.8 wt.% (based on the total weight of the composition), (B) an insoluble colorant (having a particle diameter of, preferably, 0.01-0.3  $\mu$ m) in an amount of, preferably, 1-8 wt.% (C) a polymeric dispersant in an amount of, preferably, 0.1-8 wt.% and (D) a surfactant selected from silicone surfactants and fluorinated surfactants in an amount of, preferably, 2-4 wt.%.

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